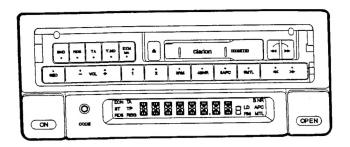
# clarion Service Manual

Published by Service Information Section



#### PEUGEOT

RDS-EON/FM·MPX/MW/LW RADIO CASSETTE COMBINATION

## Model PU-9880A

GEO : Audio mode selector / Loudness (Press for over 2 seconds.)

T.MD ; Tuning mode selector

/ DX/LO selector (Press for over 2 seconds.)

MA/EXM: Preset scan / Auto store memory (Press for over 2 seconds.)

## **■**SPECIFICATIONS:

[ RADIO Section ]

Circuit system:

Superheterodyne Electronic tuning

Tuning system: Receive range:

FM 87.5MHz to 108.0MHz

MW 531kHz to 1602kHz

LW 153kHz to 279kHz

Intermediate frequency:

FM 10.7MHz

M/L 450kHz

Quieting sensitivity:

FM Less than 14dB

(at 30dB S/N)

MW Less than 35dB

(at 20dB S/N)

LW Less than 40dB

(at 20dB S/N)

Separation:

FM More than 20dB FM DX:20±10dB

Auto stop sensitivity: MW DX:30±10dB

LW DX:30±10dB

[ TAPE Section ]

Reproduction system:

4 track, 2-channel, stereo cassette deck

Tape speed:

4.76cm/sec.(1-7/8"/sec.)

Wow & fllutter:

Less than 0.20%(W.R.M.S)

Separation:

More than 30dB

Crosstalk:

More than 40dB

Normal tape (120 µs) S/N ratio:

48dB/56dB (DOLBY ON)

Metal tape  $(70 \mu s)$ 

50dB/58dB (DOLBY ON)

FF, REW time:

Less than 95sec.(C-60)

[ SYNTHESYS ]

Load impedance:

 $4 \cap \times 4$ 

Maximum output power:

MW More than 8W×4

(at 999kHz,74dB,VOL:Max)

LW More than 8W×4

(at 216kHz,74dB,VOL:Max) TAPE More than 10W×4

(1kHz,0VU,VOL:Max)

Power supply voltage:

DC 13.5V

Current consumption:

Negative ground Less than 10A

(at output:Max)

Dimensions:

Weight:

178(W) × 50(H) × 160(D) mm

1.6kg

- Dolby noise reduction manufactured under license from Dolby laboratories Corporation.
- "DOLBY" and the double D symbol III are trademarks of Dolby Laboratories Licensing Corporation

## **COMPONENTS:**

■ PU-9880A-A

Main unit

Mounting bracket

300-9393-01

#### ■COMPUTER ANTI-THEFT SYSTEM(CATS):

This unit incorporates a Computer Aniti-Theft System (CATS). CATS is a system whitch, if power to the unit has been interrupted for any reason whatsoever

 Including disconnection and reconnection of the battery — makes the radio inoperative UNLESS THE CATS CODE NUMBER IS CORRECTLY INPUT.

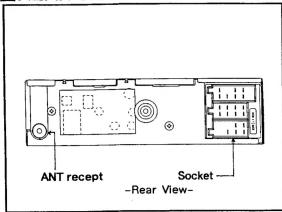
#### RELEASE CATS

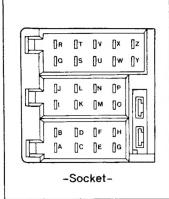
- 1.Make the necessary wire connections.
- 2. Turn on the ignition key.
- 3.Press POWER switch to turn the power on.
  - " CODE IN " appears on the display.
- 4.Input the code number, using the preset buttons. The code number you have input appears on the display.
- 5.If the input code number is correct, the radio turns on.
- A radio frequency appears on the display.

If the input code numer is incorrect, the number remain on the dispaly. To input the code number again, press the BND switch for at least 2 seconds." CODE IN "re-appears on the display. Input the correct code number.

If you input an incorrect code number three times in succession, it became impossible to input the code for one hour, even if the BND switch is pressed for over 2 seconds.

#### REAR VIEW · CONNECTIONS:

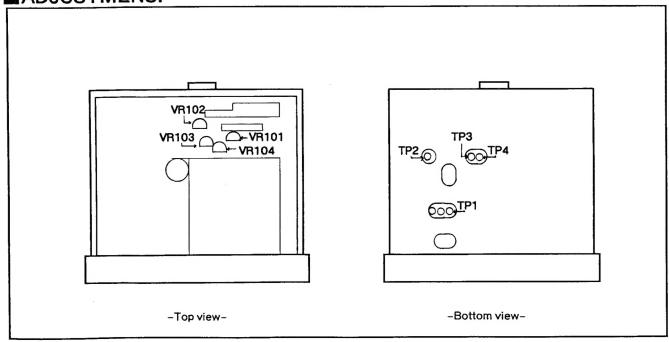




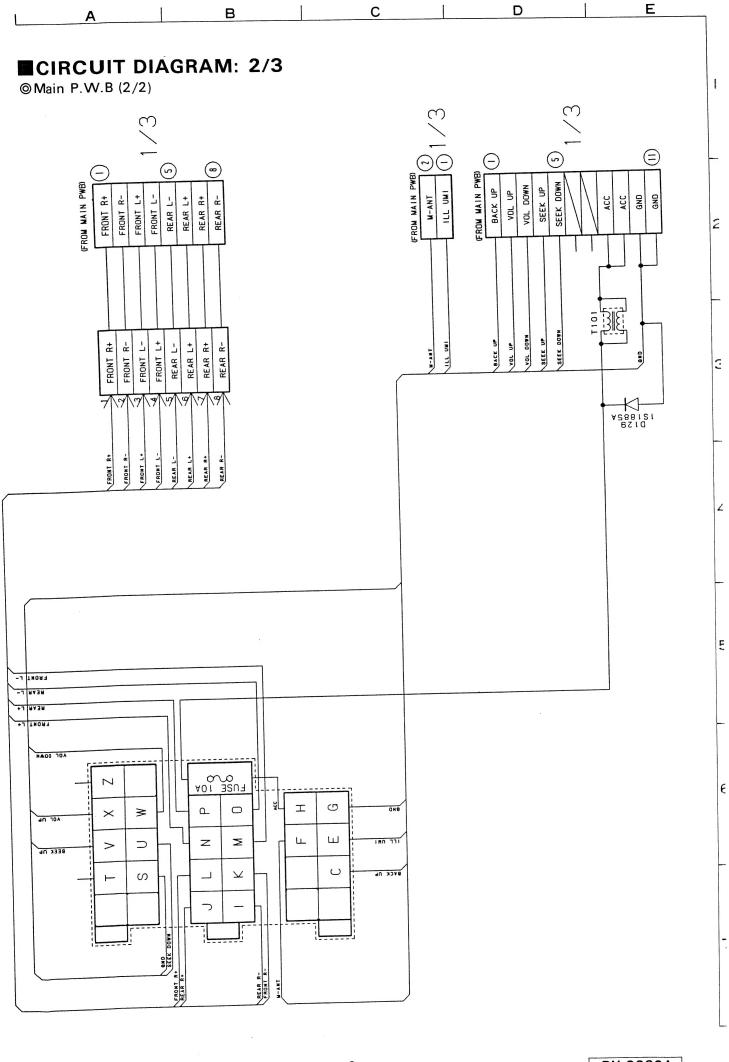
N. Front Lch (+) В. O. Rear Lch (-) C. Back up P. Rear Lch (+) D. Q. -E. Illumination R. F. Power ANT S. GND G. GND T. -H. ACC U. Seek down 1. Rear Rch (-) V. Seek up J. Rear Rch (+) W. Volume (-) K. Front Rch (-) X. Volume (+) L. Front Rch (+) Y.

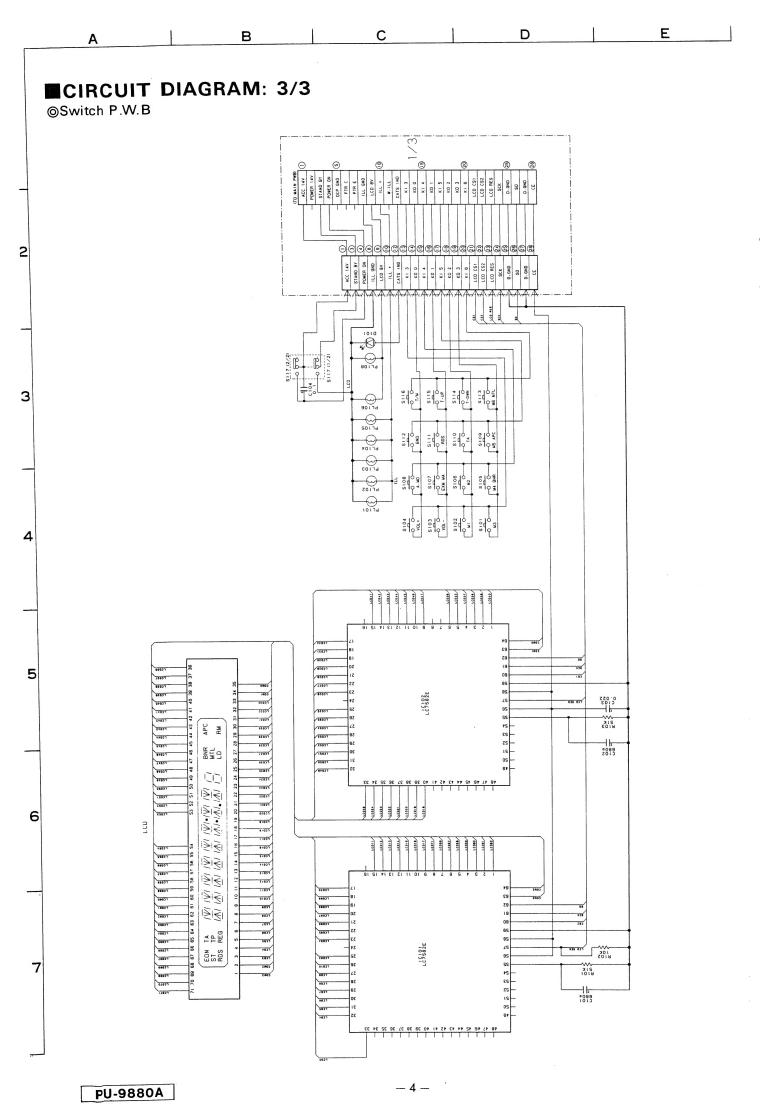
M. Front Lch (-)

#### **ADJUSTMENS:**

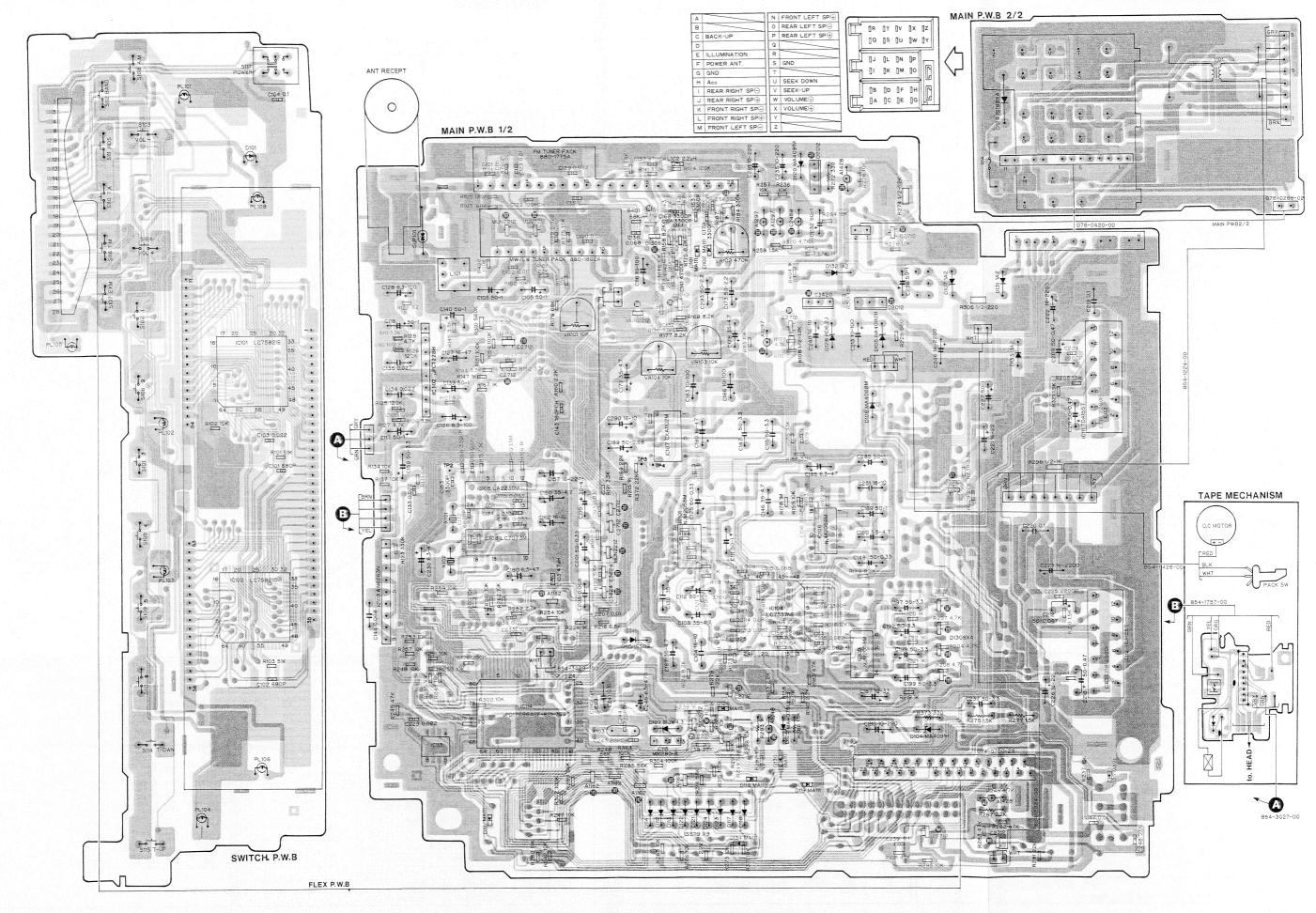


Adj-Item	Procedure
S-meter	1.Connect the digital volt-meter to TP1.
	2.Input the 98.1MHz / 65dB (400Hz 30% MOD), and adjust the level to 4.5±0.1V by VR102.
57kHz	1.Input the 98.1MHz / 65dB (5.3% SK MOD).
(B, P, F)	2.Connect the oscilloscope to TP2, and adjust VR101 so that the waveform of TP2 is maximum.
Bolby NR	1.Insert a dolby level test tape (400Hz-200nWb/m), connect the milli volt-meter to TP3(R) and TP4(L).
	2.Adjust VR103(R) and VR104(L) to obtain an output of 245mV±1dB.





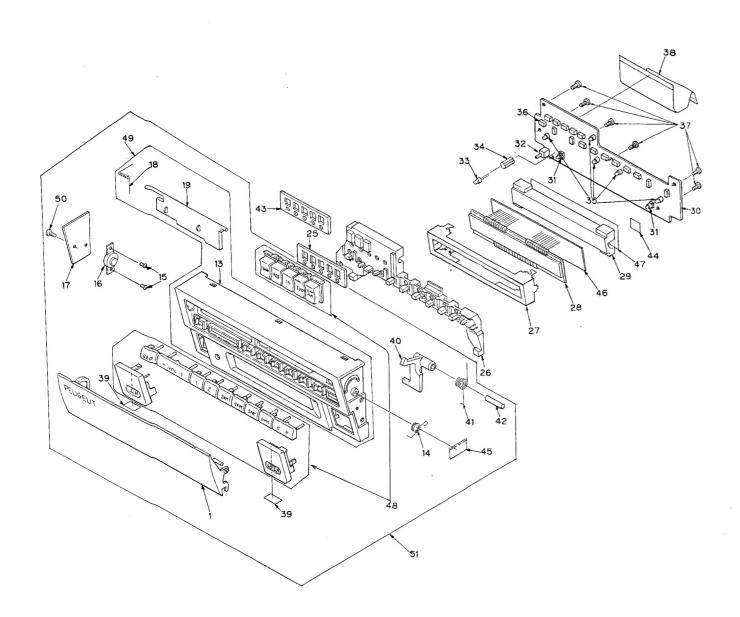
## PRINTED WIRING BOARD:



PU-9880A

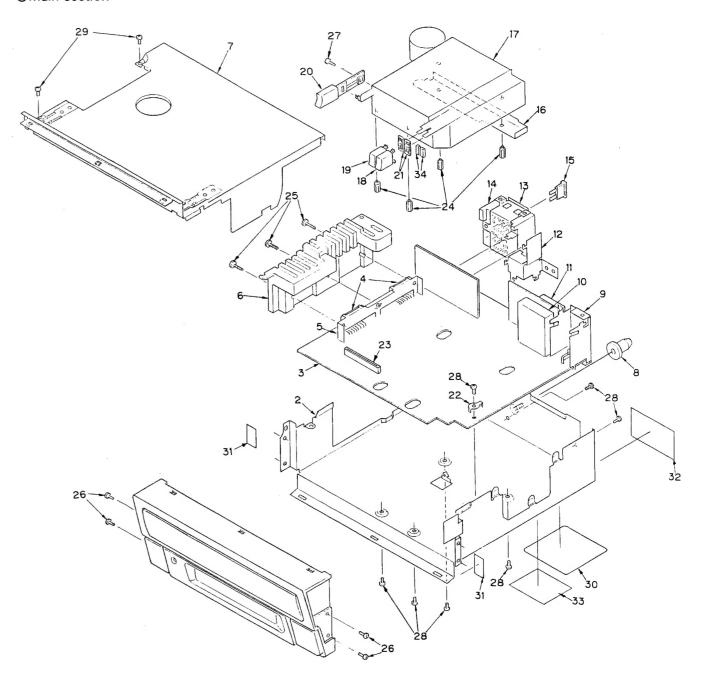
## ■EXPLODED VIEW • PARTS LIST:

©Escutcheon section



REF NO.	PARTS NO.	DESCRIPTION	QTY	REF NO.	PARTS NO.	DESCRIPTION	QTY
1	335-4682-01	Flap	1	35	017-0420-12	Pilot lamp (14V40mA)	5
13	370-5493-01	Escutcheon	1	36	013-3812-11	Switch	16
14	750-3136-01	Spring	1	37	716-0872-00	Pad screw	7
15	714-2005-81	Machine screw	2	38	039-0246-01	Flexible PWB	1
16	629-0031-00	Gear dumper	1	39	347-4025-00	Shade	2
17	331-9402-00	Dumper holder	1	40	335-4685-02	Door arm	1
18	750-2309-01	Spring	1	41	750-3135-01	Spring	1
19	320-0387-82	Dustproof cover	1	42	612-0201-00	Door arm shaft	1
25	345-7550-00	Shade	1	43	345-7551-00	Shade	1
26	335-4686-01	Button illumi	1	44	347-4027-00	Shade	1
27	331-0469-01	LCD cover	1	45	347-4031-00	Spacer	1
28	379-1013-21	Indicator	1	46	347-4029-00	Color filter	1
29	335-4687-00	LCD illumi	1	47	347-4028-00	Refrector	1
30	039-0245-01	Switch PWB	1	48	947-0381-00	Button assy	1
31	017-0429-02	Pilot lamp (8V105mA)	2	49	940-7652-01	Sub escutcheon assy	1
32	013-3849-00	Switch	1	50	716-0645-00	Screw	1
33	001-0207-00	Diode (TLR124)	1	51	940-1667A	Escutcheon assy	1
34	340-4329-00	Spacer	1				

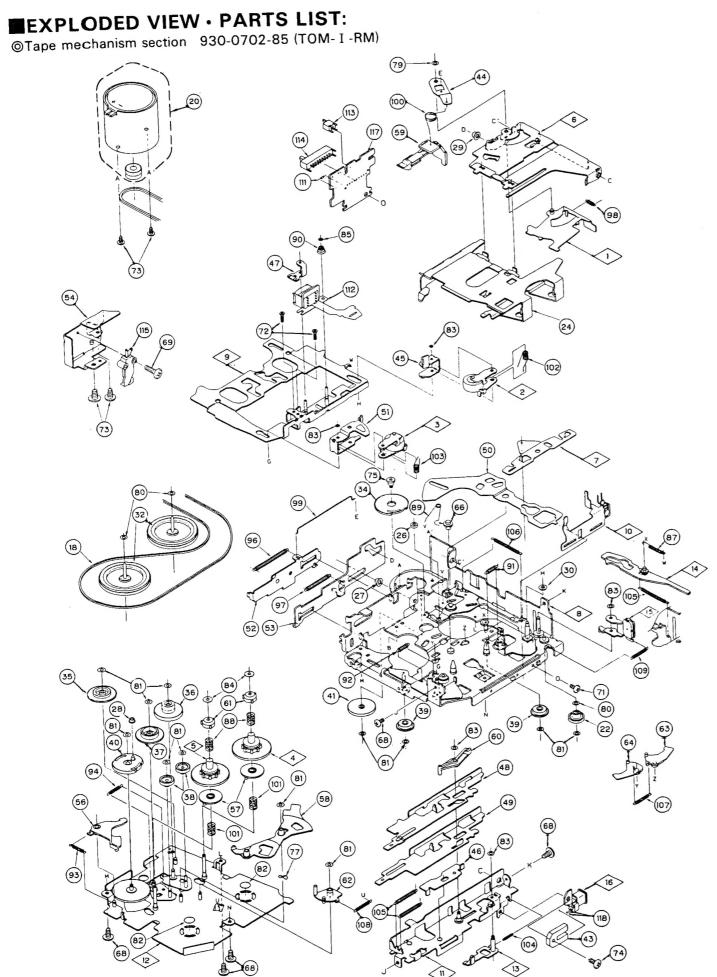
## Main section



REF NO.	PARTS NO.	DESCRIPTION	QTY	REF NO.	PARTS NO.	DESCRIPTION	QTY
2	331-1623-01	Lower case	1	20	382-3655-01	Button (EJECT)	1
3	039-0244-01	Main PWB	1	21	335-4242-01	Button spacer	2
4	051-1967-00	Power IC	2	22	073-0689-00	Terminal	1
5	331-0467-00	IC bracket	1	23	074-0750-28	Outlet socket	1
6	313-1586-02	Heat sink	1	24	716-0747-00	Screw (HEX)	4
7	310-1553-00	Upper case	1	25	714-2610-81	Machine screw	3
8 .	345-3653-01	Spacer	1	26	714-3006-81	Machine screw	4
9	330-9842-04	ANT holder	1	27	716-1580-00	IT screw	1
10	880-1602A	MW/LW tuner pack	1	28	714-3005-81	Machine screw	7
11	880-1775A	FM tuner pack	1	29	716-0878-00	IT screw (M2.6x5)	2
12	331-0471-00	Socket holder	1	30	286-8145-01	Set plate	1
13	330-9391-02	Back plate	1	31	347-4030-00	Shade	2
14	074-0930-05	Outlet socket	1	32	290-4411-00	Label	1
15	060-0057-56	Auto fuse (10A)	1	33	290-4642-00	Label	1
16	331-0029-01	Shield plate	1	34	345-4423-00	Rubber parts	2
17	930-0702-85	Tape mechanism	1				
18	382-3656-01	Button (FF)	1				
19	382-3657-01	Button (REW)	1				

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REF.NO.	PART NO.	DESCRIPTION	Q'TY	REF.NO.	PART NO.	DESCRIPTION	Q'TY
1	960-4141-03	0-4141-03 Off arm ass'y 1		60	631-0659-03	Mute link	1
2	960-4146-02	Roller F-ass'y	1	61	631-1967-00	Slide bush	2
3	960-4147-02	Roller R-ass'y	1	62	631-2013-01	Cancel link	1
4	960-4154-06	Reel F-ass'y	1	1 63 631-2014-01	631-2014-01	Brake-F	1
5	960-4155-06	Reel R-ass'y	1	64	631-2015-00	Brake-R	1
6	960-4194-02	Guide arm ass'y	1	66	632-1886-02	Lock pin	1
7	960-4203-02	Change-L-ass'y	1	68	714-2003-81	Machine screw (M2x3)	5
8	960-4309-01	Deck-P-ass'y-RM	1	69	714-2008-81	Machine screw (M2x8)	1
9	960-4312-02	Head-P-ass'y	1	71	716-0891-01	P.W.B screw	1
10	960-4313-03	HD-SW-P-ass'y	1	72	716-1432-00	Screw (AZIMUTH)	2
11	960-4314-02	Frame ass'y	1	73	716-0484-02	Motor screw	4
12	960-4315-01	Bottom-P-ass'y	1	74	716-1560-00	Plunger screw	1
13	960-4316-02	Lock-A-ass'y	1	75	716-1578-00	Screw (POWER GEAR)	1
14	960-4317-01	Shift-P-ass'y	1	77	745-0586-03	Spring washer (CHECK LINK)	1
15	960-4318-00	Plunger-L-ass'y	1	79	746-0622-01	Washer (OFF ARM)	1
16	960-3392-02	Coil ass'y	1	80	746-0624-00	Washer (0.25)	3
18	602-0113-01	Beit	1	81	746-0761-00	Washer	12
20	SMA-142-100	Motor ass'y	1	82	746-0767-00	Washer (FLYWHEEL)	2
	604-0024-00	Pulley	1	83	746-0768-00	Washer (0.5 WARI)	5
22	-	Pack guide	1	84	746-0813-00	Poly-washer (REEL-ASS'Y)	2
24	606-0092-02	Power roller	1	85	746-0832-00	Washer (HEAD)	1
26	610-0293-01			87	750-2537-02	Over-P-spring	1
27	610-0326-00	Eject roller	1	88	750-2564-01	Slide spring	2
28	610-0328-00	CH roller	1	89	750-2568-00	Lock spring	1
29	610-0337-00	Guide-A-roller		90	750-2848-00	Azimuth spring	1
30	610-0346-00	Head-G-roller	2	91	750-2849-02	FF P-spring	1
32	611-0087-04	Flywheel		-	750-2850-02	REW-P-spring	1 1
34	613-0094-01	Power gear	1	92		Lock-L-spring	1
35	613-0258-03	Gear B	1	93	750-2852-01		-
36	613-0259-02	Gear F	1	94	750-2853-01	Idler-P-spring	1
37	613-0260-02	Gear R	1	96	750-2857-02	Eject-L-spring	+
38	613-0261-01	Idler gear	2	97	750-2858-01	Eject-P-spring	+
39	613-0262-01	FF/REW gear	2	98	750-2859-00	Off arm spring	
40	613-0264-02	CH gear	1	99	750-2860-01	Lod spring	+-
41	613-0304-10	Gear A	1	100	750-2861-01	Slot in spring	-
43	630-1479-02	Core	1	101	750-2919-02	Check spring-R	-
44	630-2419-02	Swing arm	1	102	750-2920-01	Pinch spring-F	
45	630-2422-05	Release link	1	103	750-2921-01	Pinch spring-R	
46	630-2424-04	Select link	1	104	750-3010-01	Lock-A-spring	-
47	630-2427-01	Azimuth link	1	105	750-3011-00	Shift-P-spring	
48	630-2430-05	FF lever-CR	1	106	750-3012-00	Power-P-spring	+
49	630-2431-05	REW lever-CR	1	107	750-3013-00	Brake spring	
50	630-2432-02	Change plate	1	108	750-3014-00	Cancel spring	
51	630-2436-04	REW link	1	109	750-3015-01	Plunger spring	
52	630-2445-01	Eject lever-CR	1	111	001-0330-00	Diode	
53	630-2645-00	Eject plate RM	1	112	011-0307-29	Head	
54	630-2648-01	Switch base RM	1	113	013-3906-00	Switch (MUTE)	
56	631-0653-02	Lock link	1	114	013-3922-00	Switch (SLIDE)	
57		Check plate	2	115	013-3924-00	Switch (MAIN)	
58		Check link	1	117	099-9573-01	P.W.B	
59		Pack stopper	1	118	800-0607-60	Vinyl-coat-wire	

PU-9880A

# PARTS LIST:

Note) Several different parts listed in the column are alternative parts.
One of those parts is used in the set.

SWITCH I	PWB						tie of titose parts is	used in the set.		
REF NO.	PARTS NO.	DESCR	RIPTION	QTY	REF	NO.	PARTS NO.	DESC	CRIPTION	QTY
IC101 102	051-6005-00	IC	LC7582E	2	Q123 1	35	103-2012-00	Transistor	2SD2012	2
C104	043-1601-10		0.1 μF	1	Q113		108-0302-00	FET	2SK302	1
			0.022 μF	1		102 106	125-2031-03	Transistor	MUN2212	4
C103	178-2232-05				1	02 100	125-2051-05	Transistor	MUNZZIZ	4
C101 102	178-6812-05	Chip-C	680PF	2	116			<u> </u>		-
					C219 2	220	172-1041-11	Polyest-C	0.1 μF	2
MAIN PWB					C241		172-1541-11	Polyest-C	0.15 μF	1
REF NO.	PARTS NO.	DESC	RIPTION	QTY	C134 1	35	172-2731-11	Polyest-C	0.027μF	2
D128	001-0188-01	Diode	1S1885	1	C144 2	208	172-6831-11	Polyest-C	0.068μF	2
D112~115 117	001-0330-00	Diode	1SS119	10	C174 1	175 184	043-1600-33	Chip-C	0.033µF	4
		Diode	1SS176		193	10 104	0.00 .000 00	J	0.000#1	-
118	001-0352-01			- 1		214 215	042 1600 60	Chin C	0.000.5	-
	001-0638-00	Diode	WG713A			214 215		Chip-C	0.068μF	3
D106	001-0377-38	Diode	MA4068M	1		114 164	043-1600-82	Chip-C	0.082μF	4
	001-0376-39	Diode	MTZJ6.8C		165					
D125	001-0377-40	Diode	MA4075L	1	C239	242	043-1601-10	Chip-C	0.1 μF	2
	001-0376-41	Diode	MTZJ7.5B		C122		176-1011-00	Chip-C	100PF	1
D105	001-0377-45	Diode	MA4082H	1	C134	142 143	176-1811-00	Chip-C	180PF	3
D105	001-0376-46	Diode	MTZJ9.1A		C243		176-2201-00	-	22PF	2
				-		-44	-			-
D120	001-0377-47	Diode	MA4091M	1	C137	440 451	176-4701-00	-	47PF	1
	001-0376-48	Diode	MTZJ9.1C			110 182	178-1022-05	Chip-C	1000PF	4
D104	001-0377-48	Diode	MA4091H	1	233					
	001-0376-49	Diode	MTZJ10A		C101	102 120	178-1032-05	Chip-C	0.01 μF	14
D107 131~133	001-0466-01	Diode	S5688B	4	123	131 138				
DIOI 101~133	001-0626-00	Diode	1A2		11	161 179				
2127				1	11	247 248				!
D127	001-0502-00	Diode	1FJW43	1						1
D101 102 111	001-0516-00	Diode	MA111	9	253	294	<u> </u>	<del> </del>		-
116 119 126					C171		178-1222-05	Chip-C	1200PF	1
130 134 135					C121	158 217	178-2222-05	Chip-C	2200PF	6
D128	001-0567-35	Diode	RD6.2JSN2	1	218	224 225				1
	001-0503-35	Diode	HZS6C2L		C109	129 133	178-2232-05	Chip-C	0.022µF	4
T401	009-0652-00			1	229					1
T101		-		1	C107	156	178-2712-05	Chip-C	270PF	2
L104	010-2003-04	-			-			-		
L102	010-2199-16	Coil		1	41	119 131		Chip-C	3300PF	8
L103	010-2199-32	Coil		1	153	154 163				1
VR101 103 10	4 012-4431-06	Variable res	stor	3	166	168				
VR102	012-4431-13	Variable res	stor	1	C115	141	178-4722-05	Chip-C	4700PF	2
R228 310	032-0104-00	Film chip-l	3 560Ω	1	C172		178-6822-05	Chip-C	6800PF	1
IC102	051-0301-01	-	μPD1228H	1	C103	105 109	183-1053-62	Electro-C	50V 1μF	13
	9 051-0556-01		NJM2058M	3		112 117				
					41		1			1
IC103	051-0561-01	IC	AN6263N	1	41	139 140	1	}		
IC115	051-0840-15	IC	MN1280-R	1	-11	232 236	· [			
IC104	051-0866-16	IC	LC7537NE	1	285					
IC107	051-1038-01	IC	CAX1102M	1	C162	240 290	183-1063-32	Electro-C	16V 10μF	3
IC108	051-1150-20	IC	LC7073M	1	C104	251	183-1066-31	Electro-C	16V 10μF	2
IC113	051-1375-65			1	C126	128	183-1073-12		6.3V 100 μF	2
10113				1	1	183 186			10V 100 μF	4
	051-1375-35		1 4222014	1	41	.00 100	100-1010-22	2,000,0-0	. σ. 100 μ1	"
IC105	051-1625-00		LA2230M	1	213	200	100 0050 55	151-1-5	EOV 00 5	+-
IC111 112	051-1967-00		TDA1557	2	C173		183-2253-62		50V 2.2 μF	2
IC114	052-1300-01	IC μPD170	06AGF-621-3B9	1		221 226		_	16V 22 μF	3
X101	060-0115-04	Ceramic re	sonator	1	C125	148 201	183-3343-62	Electro-C	50V 0.033 μF	3
SUP101	060-0122-10	Surge prot	ector	1	C159	192 197	183-3353-62	Electro-C	50V 3.3 μF	6
X102 242	060-0146-50			2	-11	199 237				1
	061-1053-00			1	C147		183-3356-62	Electro-C	50V 3.3 μF	1 2
X103			20 410 40	+	11-			+	10V 33 μF	1
Q146	100-1048-00		2SA1048	1	C187		183-3363-22			$\rightarrow$
Q141 142 144	4   100-1162-00	Transistor	2SA1162	5	11	211 212	183-4743-62	Electro-C	50V 0.47μF	4
145 151					216					
Q103 130 132	2 100-1297-28	Transistor	2SA1297GR	3	C108	117 150	183-4753-52	Electro-C	35V 4.7 μF	7
Q136 143	100-1428-00		2SA1428	2	160	167 178	3			
	102-2458-00		2SC2458	1	195					
Q131			2SC2712	13	C130	146	183-4756-52	Electro-C	35V 4.7μF	- 2
Q104 105 108	1	Transistor	2002112	13	1				6.3V 47μF	13
109 110 129	L L					185 230				-
127 137 138	8				C127		183-4763-32	-	16V 47 μF	12
140 144 14	7				C189		183-6843-62	Electro-C	50V 0.68μF	1
171		1			C210	235 291	1 184-2273-22	Electro-C	10V 220μF	3
	102-2712-51	Transistor	2SC2712GR,BL	2	C222	223 246	6 184-2283-32	Electro-C	16V 2200 μF	3
0114 115	1 102 2112 0			-			184-4773-12		6.3V 470 μF	-
Q114 115		Transistor	2SC3420GR RI	_ 1	C245				0.3V 4/U//	
Q148	102-3420-50		2SC3420GR,BL	+	C245		104-4170-12	Licono	0.3V 410 HF	+-
	102-3420-50 102-3624-00	Transistor	2SC3420GR,BL 2SC3624 2SD1306	2 5	C245		104-4170-12	License	0.37 470ДГ	+

⊚Main P.W.B (1/2)

